

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 140 (BALTIMORE BLVD) AND BETHEL ROAD IN CARROLL COUNTY, MARYLAND. MD 140 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 140 APPROACHES OPERATING CONCURRENTLY AND THE BETHEL ROAD APPROACHES OPERATING CONCURRENTLY.

EXCLUSIVE LEFT-TURN PHASING WILL BE PROVIDED FOR EASTBOUND AND WESTBOUND MD 140 APPROACHES.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

STANDARD NO. MD-104.04-01 (SHOULDER WORK)  
STANDARD NO. MD-104.04-03 (LEFT LANE CLOSURE)  
STANDARD NO. MD-104.04-13 (LEFT TURN BAY CLOSURE)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. JOHN CONCANNON  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (301) 624-8140/8141

MR. RAY JOHNSON  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
PHONE: (301) 624-8105

MS. ANDREA ABEND  
DISTRICT UTILITY ENGINEER  
PHONE: (301) 624-8115/8116

MR. RICHARD L. DAFF, SR.  
CHIEF, TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 781-7630

EQUIPMENT LIST "A"

NO EQUIPMENT TO BE SUPPLIED BY THE SHA

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
8001	18 EACH	12 INCH LED SIGNAL HEAD SECTION
8023	1 EACH	REM & DISPOSE MAT & EQUIP PER ASSIGN
8056	475 L.F.	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)

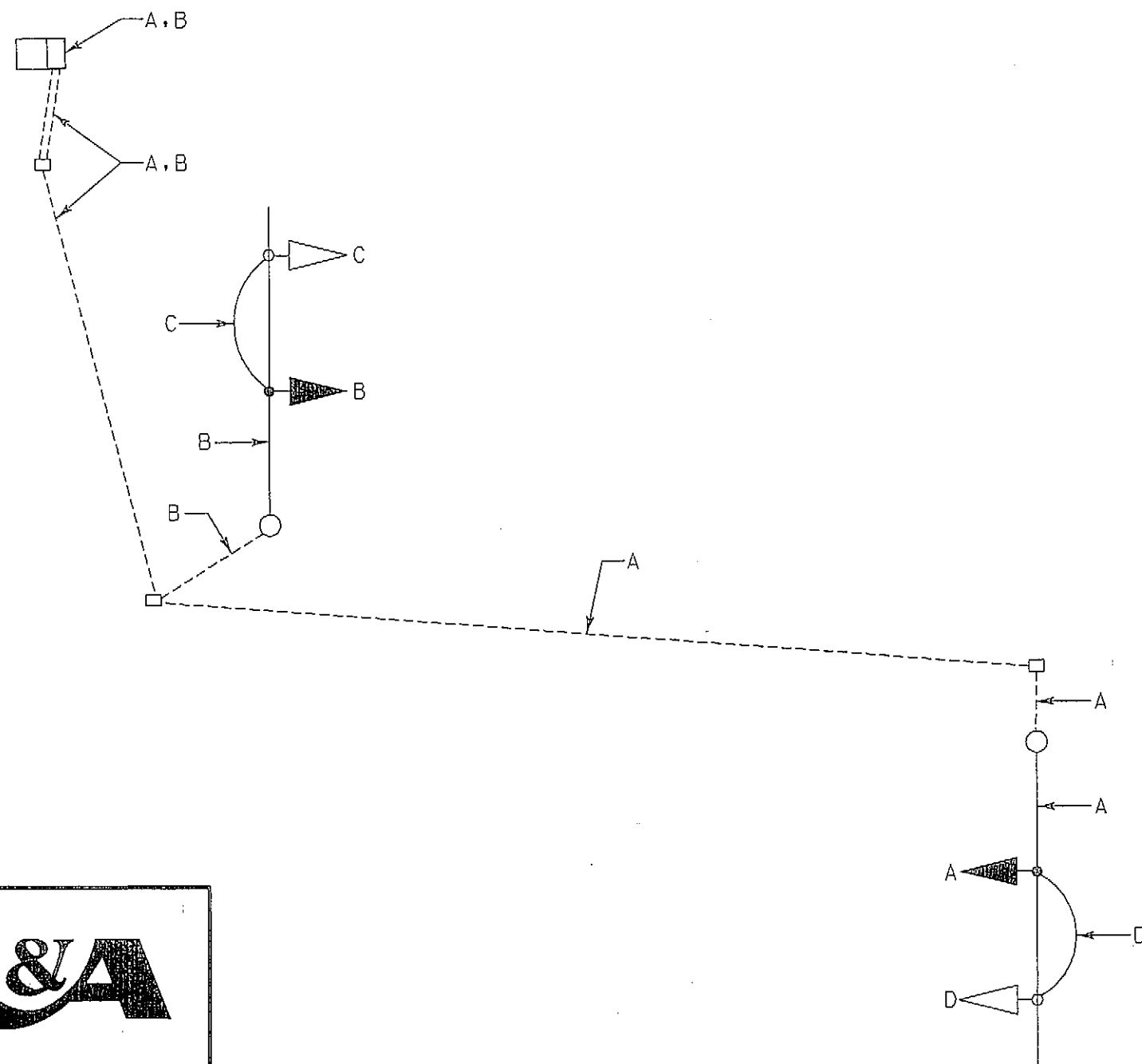
EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA  
ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

WIRING DIAGRAM

WIRING KEY

A } 7-CONDUCTOR ELECTRICAL  
B } CABLE (NO. 14 A.W.G.)  
  
C } EXISTING 5-CONDUCTOR ELECTRICAL  
D } CABLE (NO. 14 A.W.G.)



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13
	(R)	(R)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)
PHASE 1 AND 5	←G-	←G-	R	R	←G-	←G-	R	R	R	R	R	R	R
1 AND 5 CHANGE	PHASE 1 + 5 MAY CHANGE TO PHASE 1 + 6, PHASE 2 + 5 OR PHASE 2 + 6												
PHASE 1 AND 6	←G-	←G-	G	G	←R-	←R-	R	R	R	R	R	R	R
1 AND 6 CHANGE	←Y-	←Y-	G	G	←R-	←R-	R	R	R	R	R	R	R
PHASE 2 AND 5	←R-	←R-	R	R	←G-	←G-	G	G	R	R	R	R	R
2 AND 5 CHANGE	←R-	←R-	R	R	←Y-	←Y-	G	G	R	R	R	R	R
PHASE 2 AND 6	←R-	←R-	G	G	←R-	←R-	G	G	R	R	R	R	R
2 AND 6 CHANGE	←R-	←R-	Y	Y	←R-	←R-	Y	Y	R	R	R	R	R
PHASE 4 AND 8	←R-	←R-	R	R	←R-	←R-	R	G	G	G	G	G	G
4 AND 8 CHANGE	←R-	←R-	R	R	←R-	←R-	R	Y	Y	Y	Y	Y	Y
FLASHING OPERATION	←FL/R	←FL/R	FL/Y	FL/Y	←FL/R	←FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R

TOD NO: XX650-09  
SHA NO: CL208852  
MD 140 @ Bethel Road



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 140 (Baltimore Blvd) and Bethel Road  
Westminister, Md

GENERAL INFORMATION SHEET

SCALE NONE ADVERTISED DATE 11/07/2011 CONTRACT NO. XX6505185

DESIGNED BY S. Bloss COUNTY Carroll  
DRAWN BY S. Bloss LOGMILE 06014005.04  
CHECKED BY N. Leary TMS NO. 1086  
F.A.P. NO. TOD NO.

TS NO. 4243 B DRAWING TSP-2 OF 2 SHEET NO. 2 OF 2



WHITMAN, REQUARDT  
& ASSOCIATES, LLP  
801 South Caroline Street, Baltimore, Maryland 21231

BY: sbloss